

GLYCOPROTEIN SYNTHESIS

ABSTRACT OF THE DISCLOSURE

Methods for making glycoproteins, both in vitro and in vivo, are provided.

One method involves incorporating an unnatural amino acid into a protein and attaching one
5 or more saccharide moieties to the unnatural amino acid. Another method involves
incorporating an unnatural amino acid that includes a saccharide moiety into a protein.
Proteins made by both methods can be further modified with additional sugars.